

MERL-1508

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Horng

Title: TRANSMIT DIVERSITY GAIN FOR WIRELESS COMMUNICATIONS  
NETWORKS

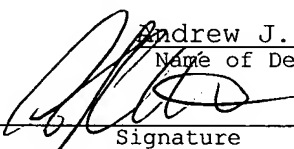
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
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Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the  
following documents (copies enclosed) listed on the attached copy  
of Form PTO-1449.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

X 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

   1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action under 37 CFR 1.113; OR
- (2) A Notice of Allowance under 37 CFR 1.311;

AND is accompanied by either:

(check one)

\_\_\_\_\_ the Certification under 37 CFR  
1.97(e) as set out below; OR

\_\_\_\_\_ the fee of \$240.00 under 37 CFR  
1.17(p).

\_\_\_ 1.97(d) This Information Disclosure Statement is filed  
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(1) a Final action under 37 CFR 1.113; OR

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BUT before payment of the Issue Fee, AND is accompanied  
by:

(1) the Certification under 37 CFR 1.97(e) as  
set out below; AND

(2) Petition is hereby made under 37 CFR  
1.97(d) for consideration of this  
Information Disclosure Statement; AND,

(3) Authorization to charge the petition fee  
of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed  
under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby

certifies that:

— each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;

or

— no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable enquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Statement.

MERL-1508

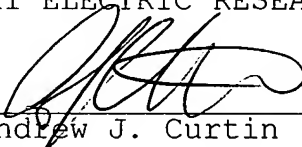
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Respectfully submitted,

MITSUBISHI ELECTRIC RESEARCH LABORATORIES

By:



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Enclosures

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Form PTO-1449 (modified 2/91)	U.S. DEPT OF COMMERCE Patent and Trademark Office	Attorney Docket Number: MERL-1508	Serial Number:
<b>INFORMATION DISCLOSURE CITATION</b>		Applicant:	
		Filing date: Herewith	Group art area:
(Use several sheets if necessary)			

## U.S. PATENT DOCUMENTS

Exam- iner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate

## FOREIGN PATENT DOCUMENTS

	Document number	Date	Country	Class	Subclass	Translation	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	S. Zhou, G.B. Giannakis, "Optimal transmitter eigen-beamforming and space-time block coding based on channel mean feedback," IEEE Trans. Signal Processing, vol. 50, pp. 2599-2613, October, 2002.
2.	3GPP Standard document, TR 25.869, "Transmitter diversity solutions for multiple antennas."
3.	J.H. Horng, L. Li, and J. Zhang, "Adaptive space-time transmit diversity for MIMO systems," In Proc. IEEE Veh. Techno. Conf. VTC '03 Spring, pp. 1070-1073, April 2003.
Examiner:	
Date Considered:	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	